

STIC Biotechnology Systems Branch

Attachment

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/552,909A
Source: IFW
Date Processed by STIC: 11/7/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/552,909A
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/552,909A

DATE: 11/07/2006

TIME: 11:51:44

Input Set : N:\RJAVED\10552909A.txt

Output Set: N:\CRF4\11072006\J552909A.raw

*see item 4 on Error
Summary Sheet*

see pp 1, 3-4

**Does Not Comply
Corrected Diskette Needed**

*insert this numeric identifier
at the beginning of
publication information.
It never has a
response.*

*this is
for Publication Date
use this format: yyyy-mm-dd*

3 <110> APPLICANT: Xiao, Yingxao
4 Feng, Xin-Hua
6 <120> TITLE OF INVENTION: Gene expression suppression agents
8 <130> FILE REFERENCE: 132848-01US
10 <140> CURRENT APPLICATION NUMBER: US 10/552,909A
11 <141> CURRENT FILING DATE: 2005-10-13
13 <160> NUMBER OF SEQ ID NOS: 9
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 27
17 <212> TYPE: DNA
18 <213> ORGANISM: Human
20 <220> FEATURE:
21 <221> NAME/KEY: primer_bind
22 <223> OTHER INFORMATION: Primer to amplify upstream promoter containing Box D in the
23 Human 5S RNA gene
W--> 25 <310> PATENT DOC NO: PCT/US2003/014631 (3007
26 <311> PATENT FILING DATE: 2003-05-12
W--> 27 <312> PUBLICATION DATE: PCT WO 2004/106488 A2 (3127
29 <400> SEQUENCE: 1
30 aacggatcca aaacgctgcc tccgcga 27
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 25
34 <212> TYPE: DNA
35 <213> ORGANISM: Human
37 <220> FEATURE:
38 <221> NAME/KEY: primer_bind
39 <223> OTHER INFORMATION: Downstream reverse primer used to amplify the upstream
40 promoter containing Box D in the Human 5S RNA gene. The
41 sequence contains a PstI site at 7 bp upstream of the
42 transcription site.
44 <400> SEQUENCE: 2
45 tagacgtgc aggagcgcc tggct 25
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 269
53 <212> TYPE: DNA
54 <213> ORGANISM: Human
56 <220> FEATURE:
57 <221> NAME/KEY: promoter
58 <223> OTHER INFORMATION: Calculated BamHI-PstI fragment of the upstream promoter
59 containing Box D in the Human 5S gene. Cloned into
60 pBluescript-KS to give plasmid pPPVI.
62 <400> SEQUENCE: 3
63 ggatcaaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgctccca ggatcgtggg 60

*ince
this is
patent
document
number,
hang
to
3107*

*W-->
W-->*

RAW SEQUENCE LISTING DATE: 11/07/2006
 PATENT APPLICATION: US/10/552,909A TIME: 11:51:44

Input Set : N:\RJAVED\10552909A.txt
 Output Set: N:\CRF4\11072006\J552909A.raw

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65 ccctgggcct gacgcctcgg agcactccct gtcgccgagcg ggcccgatgt ggtggaagct 120
67 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggggtcccc gatccgagcc 180
69 ccgcggcccc gggctggcgg tgctggctgc aatccggcgg gcacggccgg ccgggctggg 240
71 ctcttggggc agccaggcgc ctccttcag 269
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 84
75 <212> TYPE: DNA
76 <213> ORGANISM: Human
78 <220> FEATURE:
79 <221> NAME/KEY: terminator
80 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
81     Serves as a top strand to anneal with SEQ ID NO: 5 to
82     create a double-stranded DNA molecule.
84 <400> SEQUENCE: 4
86 agaagacgaa gctaagcagg gtcgggcctg gttagtactt ggatgggaga ccgcctggga 60
88 ataccgggtg ctgtaggctt ttg 84
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 88
93 <212> TYPE: DNA
94 <213> ORGANISM: Human
96 <220> FEATURE:
97 <221> NAME/KEY: terminator
98 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
99     Serves as a top strand to anneal with SEQ ID NO: 4 to
100    create a double-stranded DNA molecule.
102 <400> SEQUENCE: 5
103 tcgacaaaaa gcctacagca cccggtattc ccaggcggtc tcccatccaa gtactaacca 60
105 ggcccgaccc tgcttagctt cgtcttct 88
108 <210> SEQ ID NO: 6
109 <211> LENGTH: 367
110 <212> TYPE: DNA
111 <213> ORGANISM: Human
113 <220> FEATURE:
114 <221> NAME/KEY: promoter
115 <223> OTHER INFORMATION: A BamHI-SalI fragment of plasmid pPPV2 containing the
116     upstream promoter containing Box D, A, C and the terminator
117     of the Human 5S gene.
119 <400> SEQUENCE: 6
120 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgctcca ggatcgtagg 60
122 ccctgggcct gacgcctcgg agcactccct gtcgccgagcg ggcccgatgt ggtggaagct 120
124 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc ggggggtcccc gatccgagcc 180
126 ccgcggcccc gggctggcgg tgctggctgc aatccggcgg gcacggccgg ccgggctggg 240
128 ctcttggggc agccaggcgc ctccttcagg aattcgatag aagacgaagc taagcagggt 300
130 cgggcctggt tagtacttgg atgggagacc gcctgggaat accgggtgctg taggctttt 360
132 tgtcgac 367
134 <210> SEQ ID NO: 7
135 <211> LENGTH: 51
136 <212> TYPE: DNA
137 <213> ORGANISM: Human

```

Best Available Copy

DATE: 11/07/2006

TIME: 11:51:44

Input Set : N:\RJAVED\10552909A.txt

Output Set: N:\CRF4\11072006\J552909A.raw

139 <220> FEATURE:

140 <221> NAME/KEY: misc RNA

141 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand
142 to anneal with SEQ ID NO: 8 to create a double-stranded DNA
143 molecule with PstI at the 5' end and BbsI at the 3' end.

145 <400> SEQUENCE: 7

W--> 146 gooooooooo nnnnnnnnnn ttctcgghnn nnnnnnnnnn nnnnnntttt t 51

149 <210> SEQ ID NO: 8

150 <211> LENGTH: 59

151 <212> TYPE: DNA

152 <213> ORGANISM: Human

154 <220> FEATURE:

155 <221> NAME/KEY: misc RNA

156 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand
157 to anneal with SEQ ID NO: 7 to create a double-stranded DNA
158 molecule with PstI at the 5' end and BbsI at the 3' end. //

160 <400> SEQUENCE: 8

W--> 161 agctaaaaaa nnnnnnnnnn nnnnnnnncc gaaannnnnn nnnnnnnnnn nnnnctqca 59

163 <210> SEQ ID NO: 9

164 <211> LENGTH: 399

165 <212> TYPE: DNA

166 <213> ORGANISM: Human

168 <220> FEATURE:

169 <221> NAME/KEY: misc structure

170 <223> OTHER INFORMATION: A BamHI-SalI fragment of plasmid pPPV2 containing the siRNA
171 design. The second stretch of the 19 "n" bases are *C-OK, but all the n's*
172 complementary and reverse to the first stretch.

174 <400> SEQUENCE: 9

175 ggatccaaaa cgctgcctcc gcgacagggc ggaggacgga gggcgtccca qaatcgtggg 60

177 ccctgggcct gacgcctcgg agcactccct gctccgagcg ggcccgaatgt ggtggaagct 120

179 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc qggggtcccc qatccgagcc 180

181 ccgcggcccc gggctggcgg tgtcggctgc aatccggcgg gcacggccgg ccgggctggg 240

W--> 183 ctcttggggc agccaggegc ctcttcagc nnnnnnnnnn nnnnnnnnnnt ttcggnnnnn 300

185 nnnnnnnnnn nnnnttttta gctaagcagg gtcgggcctg gttagtactt ggatgqqaqa 360

187 ccgcctggga ataccgggtg ctgtaggctt tttgtcgac 399

FYI: all nucleotides
MUST be in
lower-case
letters

need
exploration,
further,
which
bases do
these n's
represent?

(see 1.823 of
Sequence Rules)
and p.4

VARIABLE LOCATION SUMMARY

DATE: 11/07/2006

PATENT APPLICATION: US/10/552,909A

TIME: 11:51:45

Input Set : N:\RJAVED\10552909A.txt

Output Set: N:\CRF4\11072006\J552909A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:7; N Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,28,29,30

Seq#:7; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46

Seq#:8; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,35

Seq#:8; N Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53

Seq#:9; N Pos. 271,272,273,274,275,276,277,278,279,280,281,282,283,284,285

Seq#:9; N Pos. 286,287,288,289,296,297,298,299,300,301,302,303,304,305,306

Seq#:9; N Pos. 307,308,309,310,311,312,313,314

VERIFICATION SUMMARY

DATE: 11/07/2006

PATENT APPLICATION: US/10/552,909A

TIME: 11:51:45

Input Set : N:\RJAVED\10552909A.txt

Output Set: N:\CRF4\11072006\J552909A.raw

L:25 M:284 W: Blank Line not Allowed, <310> field identifier
L:27 M:256 W: Invalid Numeric Header Field, Wrong PUBLICATION DATE:YYYY-MM-DD
L:146 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:7
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:161 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:183 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
L:183 M:112 C: (48) String data converted to lower case,
M:341 Repeated in SeqNo=9